

10172700 VERNON CREEK NEAR VERNON, UT

LOCATION.--Lat 39°58'46", long 112°22'46", in NE^{1/4}SW^{1/4}SW^{1/4} sec. 2, T. 10 S., R. 5 W., Tooele County, Hydrologic Unit 16020304, on right bank 6.6 mi upstream from confluence with Dutch Creek forming Faust Creek and 8.3 mi southeast of Vernon.

DRAINAGE AREA.--25.0 mi².

PERIOD OF RECORD.--June 1958 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above sea level, from AMS topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft³/s Aug. 27, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum daily, 0.41 ft³/s Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge ft ³ /s)	Gage height (ft)
Mar. 26	2000	13	1.24	Sep. 7	0300	16	1.30
Jun. 15	1730	*18	*1.33				

Minimum daily discharge, 2.1 ft³/s Oct. 1-15, Dec. 17, 18, and Jan. 25.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.3	2.5	2.5	2.5	e2.4	5.9	8.0	5.1	4.7	3.0	2.9
2	2.1	2.3	2.5	2.6	2.5	2.7	5.5	7.2	5.3	4.3	3.0	2.9
3	2.1	2.2	2.5	3.1	2.5	2.9	6.4	6.9	5.2	4.3	3.0	2.9
4	2.1	2.3	3.2	2.7	2.5	2.9	6.3	6.5	5.1	4.3	3.3	3.0
5	2.1	2.5	2.5	2.7	2.5	e2.7	5.5	6.5	5.3	4.2	3.2	3.0
6	2.1	2.3	2.5	2.6	2.5	2.9	5.3	6.7	5.2	4.0	3.2	3.0
7	2.1	2.3	2.4	e2.4	e2.3	2.9	5.4	6.9	5.3	4.0	3.2	4.2
8	2.1	2.2	2.5	2.5	e2.4	3.0	5.4	7.2	5.3	4.0	2.8	3.0
9	2.1	2.2	2.7	2.5	e2.4	3.2	5.6	7.2	6.0	4.0	2.9	3.0
10	2.1	2.2	3.3	2.5	2.5	3.2	5.5	6.9	5.6	3.9	3.0	3.0
11	2.1	2.2	3.1	2.5	2.5	3.5	5.2	6.8	5.2	4.0	3.0	3.0
12	2.1	2.2	2.9	2.6	2.5	3.7	5.2	6.8	5.1	4.1	3.0	3.1
13	2.1	2.2	2.7	2.8	2.5	3.8	5.0	6.7	5.1	4.0	3.0	3.0
14	2.1	2.2	2.7	2.5	e2.4	3.7	5.1	6.5	5.8	3.7	3.0	2.9
15	2.1	2.3	2.5	2.5	2.5	3.9	5.2	6.5	6.7	3.5	3.0	3.1
16	2.2	2.3	2.5	e2.3	2.5	4.2	5.2	6.2	5.5	3.5	2.8	3.1
17	2.2	2.3	e2.1	e2.3	2.5	4.3	5.6	6.1	5.1	3.5	3.0	3.0
18	2.2	2.5	e2.1	2.5	2.5	4.5	5.9	6.0	5.0	3.5	2.8	3.5
19	2.3	2.5	2.4	2.5	2.5	4.8	5.8	5.9	5.0	3.5	2.8	4.6
20	2.2	2.4	2.2	2.5	2.5	5.0	6.5	5.9	5.1	3.5	2.8	3.4
21	2.2	2.3	2.2	2.5	2.5	5.5	6.9	5.8	5.0	3.5	2.7	3.4
22	2.2	3.6	2.3	2.5	2.5	5.5	6.8	5.7	4.9	3.4	2.7	3.4
23	2.2	2.7	2.2	2.7	2.5	6.0	7.4	5.6	4.9	3.3	2.7	3.4
24	2.3	2.5	2.2	2.8	e2.4	6.2	7.7	5.9	4.9	3.3	2.7	3.3
25	2.3	2.5	2.2	2.1	e2.4	5.7	7.1	5.9	4.9	3.2	2.8	3.3
26	2.3	2.5	2.3	2.7	2.5	7.3	6.8	5.8	4.8	3.2	2.8	3.4
27	2.3	2.4	2.3	2.5	2.6	9.0	7.1	5.6	4.9	3.3	2.7	3.3
28	2.3	2.5	2.2	2.5	2.5	7.5	7.3	5.5	5.0	3.4	2.8	3.4
29	2.3	2.5	2.3	2.5	---	6.1	7.6	5.3	4.9	3.4	2.8	3.3
30	2.3	2.5	2.3	2.5	---	6.9	7.5	5.2	4.9	3.3	2.8	3.3
31	2.3	---	2.4	2.5	---	7.1	---	5.2	---	3.0	2.9	---
TOTAL	67.6	71.9	76.7	78.9	69.5	143.0	183.7	194.9	156.1	114.8	90.2	97.1
MEAN	2.18	2.40	2.47	2.55	2.48	4.61	6.12	6.29	5.20	3.70	2.91	3.24
MAX	2.3	3.6	3.3	3.1	2.6	9.0	7.7	8.0	6.7	4.7	3.3	4.6
MIN	2.1	2.2	2.1	2.1	2.3	2.4	5.0	5.2	4.8	3.0	2.7	2.9
AC-FT	134	143	152	156	138	284	364	387	310	228	179	193

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1997, BY WATER YEAR (WY)

WY	1984	1985	1985	1985	1985	1985	1983	1983	1983	1983	1983
MEAN	3.05	2.98	2.88	2.85	2.93	3.39	5.59	6.67	4.22	3.33	3.04
MAX	9.08	8.89	7.93	7.92	7.65	9.30	21.6	40.0	19.3	12.3	10.1
MIN	1.06	1.20	1.23	1.08	1.32	1.42	1.42	1.20	1.20	1.05	1.01
(WY)	1960	1960	1960	1961	1961	1961	1961	1961	1961	1961	1959

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1959 - 1997

ANNUAL TOTAL	914.5	1344.4	
ANNUAL MEAN	2.50	3.68	3.66
HIGHEST ANNUAL MEAN			12.0
LOWEST ANNUAL MEAN			1.26
HIGHEST DAILY MEAN	3.6	Jun 12	70
LOWEST DAILY MEAN	1.8	Aug 19	Apr 24 1983
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 19	.84 Dec 18 1967
ANNUAL RUNOFF (AC-FT)	1810	2670	.93 Jul 21 1961
10 PERCENT EXCEEDS	3.0	6.1	7.3
50 PERCENT EXCEEDS	2.5	3.0	2.5
90 PERCENT EXCEEDS	2.0	2.2	1.4

e Estimated